

ADDITIONAL SHEET

CCR#: 04-0197

Rev: —

Originator: Carol Lindsey

Telephone: 301-925-0492

Office: COTS MAINT

Title of Change: Deliver Fix to FTP Beans Suite 2.01 COTS Patch for 6A.08 and Release 7

This patch delivery changes the baseline for the ftpbeans 2.01 COTS product at all sites. It contains a fix for the following NCR:

NCR Number	Subsystem	Sev	State	Site	Description
ECSed38780	OPERATIONS	2	T	EDC DAAC	OPS:6A.08+: FtpPush of BulkURL Insert file fails with timeout

The patch is to be installed on the following machines:

- e0dps01
- g0dps01
- l0dps01
- n0dps01
- t1acs06
- p2dps01

The patch was tested successfully in the EDF and PVC Labs. Refer to the Test Procedures below.

INSTALLATION INSTRUCTIONS for FTP Beans Suite 2.01 Custom

The following provides the installation and configuration procedures for FTP Beans Suite 2.01.

Prerequisites

Estimated Installation Time: 10-15 minutes for a novice operator in each environment.

Estimated Disk Space: approximately 50 KB

- Solaris 8
- Java Runtime Environment (JRE) 1.4.1_01. Refer to technical document, 914-TDA-255 JRE 1.4.1 (SUN and SGI) Maintenance Upgrade for the EMD Project.
- Obtain the FTPBeans2.01.custom01_Sun.tar.gz from the staging area.
Checksum is 3586949282 size is 107355

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Uninstall Instructions

Note: The removal of ftpbeans2.01 is not necessary for this install. The removal of the ftpbeans2.01 can be done at a later date.

1. Login to installation host as root.
2. Manually remove ftpbeans 2.01 package IBMftp201.

```
# pkgrm IBMftp201
```

Installation Instructions

1. Login to installation host as root.
2. Extract the FTPBeans2.01.custom01_Sun.tar.gz tarfile into a central, NFS accessible directory. This designated staging directory is denoted in the instructions below by *<stagingdir>*.

```
# cd <stagingdir> ↵
# gunzip -c FTPBeans2.01.custom01_Sun.tar.gz | tar xvf - ↵
```
3. Install FTP Beans Suite 2.01:

```
# cd <stagingdir>/install/ftpbeans2.01 ↵
# ./install.sh ↵
```

ftpbeans2.01_custom is installed in /usr/ecs/OPS/COTS/ftpbeans2.01_custom
4. Create a soft link *ftpbeans* to point to ftpbeans2.01_custom:

```
# cd /usr/ecs/OPS/COTS ↵
# ln -s ftpbeans2.01_custom ftpbeans ↵
```

NOTE: upon successful completion remove the installation files from the staging directory.

Custom Code Integration

There is no custom code integration, however, this software is required to resolve NCR ECSed38780.

Interrogation Checkout

The following is the script that will be run by CM to complete audits:

FTPProtocol Bean:

```
# /usr/bin/cksum /usr/ecs/OPS/COTS/ftpbeans/FTPProtocol.jar |
/usr/bin/awk '{print $1}' ↵
```

The expected result:

```
1663185168
```

FTPUI Bean:

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```
# /usr/bin/cksum /usr/ecs/OPS/COTS/ftpbeans/FTPUI.jar |  
/usr/bin/awk '{print $1}'
```

The expected result:

3666713343

Back-Out Instructions

1. To remove the ftpbeans2.01_custom package under /usr/ecs/OPS/COTS:

```
# cd <stagingdir>/install/ftpbeans2.01 ↵  
# ./uninstall.sh ↵
```

2. Remove soft links:

```
# cd /usr/ecs/OPS/COTS ↵  
# rm ftpbeans ↵
```

3. Reinstall earlier ftpbeans package. Refer to FTP Beans Suite 2.01 Deployment for the EMD Project, 914-TDA-250.

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Test Procedures

Integration Plan and Test Procedure			
ECHO ENHANCEMENT: FTP Push			
Int Test Plan No.: 1		Test Author: Indrani Dey	
Title: ECHO ENHANCEMENT: FTP Push			
CapId / NCR: ECSed38780			
Objective: The objective of this test plan is to verify that the EcOsBulkUrlUtility can successfully generate ECS Synergy Data Pool URLs for Insert and push the XML file containing the urls to ECHO site. (<i>COTS: Open source software IBM alpaworks ftpbeans suit FTPProtocol.jar is used</i>)			
L4 ID	Verify Method	L4 Text	
		See Problem Statement for NCR ECS Ticket: WD_S4_05 Echo Support _PreDelete, Order Only and FTP S-BMGTxxx20:The BMGT CI's Bulk URL Utility shall FTP both Insert and delete bulk URL XML files to a configurable FTP location	
Ticket ID	Type	Criteria ID	Criteria Text
			See Test Criteria 1
Test Input Data: <ul style="list-style-type: none"> Data must exist in the Data Pool's database that corresponds to a set of granules inserted into the SDSRV database. 			
Data Set Name/Version	Description		Location
MOD01 version 1 (or any ESDT without browse images)	Standard MODIS data that does not include corresponding browse images or any ESDT without browse images		Recently inserted into SDSRV
Test Output: <ul style="list-style-type: none"> Output from these tests includes standard XML files and Email Messages in case of failure to push files. 			

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Step-By-Step Procedures		
Step No.	Input Action / Expected Results	Pass / Fail / Comments
	TEST PROCEDURE 1 The purpose of this procedure is to : Verify that XML file generated by the utility for insert can be pushed to the ECHO site	
	Assumptions: None	

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	Pre-Conditions: Run BMGT to set the bulkExported field in the DICollections table of Datapool Database. The <startDate> and <endDate> in EcOsBulkUrlConfigParmas.xml must be set such that they overlap these granules' insertTimes.	
	Test Steps:	
1	Login to f3ins01/f2ins01 in EDF and to p2dps01 in PVC # cd /usr/ecs/<mode>/CUSTOM/cfg ↵	Passed
2	# vi EcOsBulkURLConfigParams.xml ↵ Edit <startDate> and <endDate> must be set such that they overlap these granules' ecsinsertTimes Verify that following FTP related attributes are present and valid: <socksProxyHost> if running behind a proxy server please enter proxy server's ip address other wise enter 0 here For PVC use 198.118.220.1 <socksProxyPort> if running behind a proxy server please enter proxy server's port number otherwise enter 0. For PVC use 1080 <ftpConnectionMode> Connection mode should be PASV <ftpDestHost> Ftp Host should be tuborg.gsfc.nasa.gov <ftpPort> Ftp port should be 21 (default) <ftpDestination> Ftp destination can be null <ftpUser> Ftp user – ecs_test_update <ftpPassword> any email address <ftpWait> wait time in milisecond <ftpRetry> number of retry in case of connection and login failure. <fromEmailAddress> a valid email address <fromEmailHost> a valid smtp host (such as eos.hitc.com for EDF testing p2acs06 for PVC) <toEmail> a valid email address <test> should be false	Passed
3	# cd /usr/ecs/<mode>/CUSTOM/utilities ↵ and run the utility command: # EcOsBulkURLStart \$MODE Insert ↵	Passed

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Data Reduction and Analysis Steps:

- Open /usr/ecs/<mode>/CUSTOM/logs/ /EcOsBulkURLDebug.log and see the successful completion of the exporting of the url. Also view /usr/ecs/<mode>/CUSTOM/logs/ /EcOsBulkURL.ALOG
- Verify that *InsURL.*.xml file is successfully pushed to tuborg site. In order to locate the file please do the following to connect to tuborg.

Open a manual ftp connection to tuborg.gsfc.nasa.gov with user name ecs_test_update and password, which can be any email address

From EDF:

ftp tuborg.gsfc.nasa.gov

- ecs_test_update (enter at the user name prompt)
- idey@eos.hitc.com (enter your email address at the password prompt)
- ls -lrt
(you should see the file, verify the file name, time and byte size against the info in the debug log)

From PVC : (ftp to firewall first and then from there to tuborg.gsfc.nasa.gov)

ftp 198.118.220.1

- cmts2 <or a valid user name>
- quote site tuborg.gsfc.nasa.gov
- user ecs_test_update
- idey@eos.hitc.com
- ls -lrt
(you should see the file, verify the file name, time and byte size against the info in the debug log)

- Verify that local file is deleted from /datapool/<MODE>/user/URLExport

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	TEST PROCEDURE 2 Verify that XML file generated by the utility for deletes and can be pushed to ECHO site.	
	Assumptions: None	
	Pre-Conditions: There exist some granules, which have expired for which bulkExportedFlag = 'Y' in DICollections table.	
	Test Steps:	
1	Login to host where EcOsBulkUrlUtility runs. In EDF it is on f2ins01/f3ins01 and in PVC it is on p2dps01	Passed
2	<pre># cd /usr/ecs/<mode>/CUSTOM/utilities ↵</pre> and run the Cleanup Script: <pre># EcDlCleanupDatapool.pl <mode> ↵</pre>	Passed
<p>Data Reduction and Analysis Steps:</p> <ul style="list-style-type: none"> • Open /usr/ecs/<mode>/CUSTOM/logs/ /EcOsBulkURLDebug.log and see the successful completion of the process and also view /usr/ecs/<mode>/CUSTOM/logs/ /EcOsBulkURL.ALOG • Open a manual ftp connection to echo test site tuborg.gsfc.nasa.gov with user name ecs_test_update and password <your email address>. For details how to login to tuborg.gsfc.nasa.gov site please see “Data Reduction and Analysis Steps:” section of Integration Test Plan1: Test Procedure 1 (page 4). Verify the existence of file *DelURL.*.xml • Verify that local file is deleted from /datapool/DEV04/user/URLExport • Compare the timestamp between log and the file that was pushed to tuborg.gsfc.nasa.gov 		

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Integration Plan and Test Procedure			
ECHO ENHANCEMENT: FTP Push			
Int Test Plan No.: 2		Test Author: Indrani Dey	
Title: ECHO ENHANCEMENT: FTP Push			
CapId / NCR: ECSed38780			
Objective: The objective of this test plan is to verify that the EcOsBulkUrlUtility can successfully generate ECS Synergy Data Pool URLs for Delete and push the XML file, which contains the urls to ECHO site. (<i>COTS: Open source software IBM alpaworks ftpbeans suit FTPProtocol.jar is used</i>)			
L4 ID	Verify Method	L4 Text	
		See Problem Statement for NCR ECSed37243 Ticket: WD_S4_05 Echo Support _PreDelete, Order Only and FTP S-BMGTxxx30:The BMGT CI's Bulk URL Utility, upon failure to FTP the bulk URL XML files, shall send an email to a configurable email address describing the failure, and a location where the files can be picked up via anonymous FTP.	
Ticket ID	Type	Criteria ID	Criteria Text
			See Test Criteria 2
Test Input Data: <ul style="list-style-type: none"> Data must exist in the Data Pool's database that corresponds to a set of granules inserted into the SDSRV database. 			
Data Set Name/Version	Description		Location
MOD01 version 1 (or any ESDT without browse images)	Standard MODIS data that does not include corresponding browse images or any ESDT without browse images		Recently inserted into SDSRV
Test Output: <ul style="list-style-type: none"> Output from these tests includes standard XML files and Email Messages in case of failure to push files. 			

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	TEST PROCEDURE 1 The purpose of this procedure is to <ol style="list-style-type: none"> 1) Test that unsuccessful ftp attempts for the XML file generated for insert can trigger an email to user site. 2) It does not delete the local file and keeps the file in the output directory: /datapool/<mode>/users/URLExports 	
	Assumptions: None	
	Pre-Conditions: : Run BMGT, to set the bulkExported field in the DICollections table of Datapool Database. The <startDate> and <endDate> in EcOsBulkUrlConfigParmas.xml must be set such that they overlap these granules' insertTimes.	
	Test Steps:	
1	Login to host where EcOsBulkUrlUtility runs. In EDF it is on f2ins01/f3ins01 and in PVC it is on p2dps01	Passed
2	<pre># cd /usr/ecs/<mode>/CUSTOM/cfg ↵ # vi EcOsBulkURLConfigParams.xml ↵</pre> <p>Verify all FTP related attributes are present and valid. For more information please see Test procedure #1 step 2</p> <p>change <ftpUser> attribute to a non-existent tuborg.gsfc.nasa.gov user</p> <p>This will cause the ftp push transaction to fail</p>	Passed
3	<pre># cd /usr/ecs/<mode>/CUSTOM/utility ↵</pre> <p>and run the utility command:</p> <pre># EcOsBulkURLStart \$MODE Insert ↵</pre>	Passed

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Data Reduction and Analysis Steps:

- `cat /usr/ecs/<mode>/CUSTOM/logs EcOsBulkURLDebug.ALOG` – Should find an appropriate message saying that file was not delivered due to ftp failure and an email is sent regarding the event.
- `cat /usr/ecs/<mode>/CUSTOM/logs EcOsBulkURLDebug.log` – Should find an appropriate message saying that file was not delivered due to ftp failure and an email is sent regarding the event and you should see content of the email.
- Open a manual ftp connection to echo test site `tuborg.gsfc.nasa.gov` with user name `ecs_test_update` and password `<your email address>`. For details how to login to `tuborg.gsfc.nasa.gov` site please see “Data Reduction and Analysis Steps:” section of Integration Test Plan1: Test Procedure 1 (page 4). Verify that file `*InsURL*.xml` does not exist.
- change the directory to the `/datapool/$MODE/user/URLExpert` directory and type `ls -lrt`. There should be a file with `*InsURL*.xml` generated where the time corresponds to the time it was run. Since ftp push failed this file should not be deleted.
- Check the email folder of the address given for “toEmail” in `EcOsBulkUrlConfigParams.xml` file. There should be an email with subject: `EcOsBulkUrlUtility: FTP Push Failure (Insert)`. Verify the information provided in the body of the email message.

	TEST PROCEDURE 2 1.) Test that unsuccessful ftp attempts for the XML file generated for deletes can trigger an email to user site. 2) It does not delete the local file and keeps the file in the output directory: <code>/datapool/<mode>/users/URLExperts</code>	
	Assumptions: None	
	Pre-Conditions: There exist some granules, which have expired for which <code>bulkExportedFlag = ‘Y’</code> in <code>DICollections</code> table.	
	Test Steps:	
1	Login to host where <code>EcOsBulkUrlUtility</code> runs. In EDF it is on <code>f2ins01/f3ins01</code> and in PVC it is on <code>p2dps01</code>	Passed

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2	cd to /usr/ecs/<mode>/CUSTOM/cfg ➤ vi EcOsBulkURLConfigParams.xml Verify all FTP related attributes are present and valid. For more information please see Test procedure #1 step 2	Passed
3	cd /usr/ecs/<mode>/CUSTOM/utilities and run the Cleanup Script. EcDlCleanupDatapool.pl <mode>	Passed
<p>Data Reduction and Analysis Steps:</p> <ul style="list-style-type: none"> • cat /usr/ecs/<mode>/CUSTOM/logs EcOsBulkURL.ALOG – Should find an appropriate message saying that file was not delivered due to ftp failure and an email is sent regarding the event. • cat /usr/ecs/<mode>/CUSTOM/logs EcOsBulkURLDebug.log – Should find an appropriate message saying that file was not delivered due to ftp failure and an email is sent regarding the event and should see details of the email message • Open a manual ftp connection to echo test site tuborg.gsfc.nasa.gov with user name ecs_test_update and password <your email address>. For details how to login to tuborg.gsfc.nasa.gov site please see “Data Reduction and Analysis Steps:” section of Integration Test Plan1: Test Procedure 1 (page 4). • Verify that file *DelURL.*.xml does not exist. • Check the email folder of the address given for “toEmail” in EcOsBulkUrlConfigParams.xml file. There should be an email with subject:EcOsBulkUrlUtility: FTP Push Failure (Delete). Verify the information provided in the body of the email message • change the directory to the /datapool/\$MODE/user/URLExport directory and or the location specified in the email message. Type ls -lrt There should be a file with *DelURL*.xml generated where the time corresponds to the time it was run. Since ftp push failed this file should not be deleted. 		

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Integration Plan and Test Procedure			
ECHO ENHANCEMENT: FTP Push			
Int Test Plan No.: 3		Test Author: Indrani Dey	
Title: ECHO ENHANCEMENT: FTP Push			
CapId / NCR: ECSed38780			
Objective: The objective of this test plan is to verify that the EcOsBulkURL utility's ftp push capability can successfully perform the retry mechanism. (<i>COTS: Open source software IBM alpa works ftpbeans suit FTPProtocol.jar is used</i>)			
L4 ID	Verify Method	L4 Text	
		See Problem Statement for NCR ECSed37243	
Ticket ID	Type	Criteria ID	Criteria Text
			See Test Criteria 1 and 2
Test Input Data: <ul style="list-style-type: none"> Data must exist in the Data Pool's database that corresponds to a set of granules inserted into the SDSRV database. 			
Data Set Name/Version		Description	Location
MOD01 version 1 (or any ESDT without browse images)		Standard MODIS data that does not include corresponding browse images or any ESDT without browse images	Recently inserted into SDSRV
Test Output: <ul style="list-style-type: none"> Output from these tests includes standard XML files and Email Messages in case of failure to push files. 			
TEST PROCEDURE 1			
The purpose of this procedure is to test the retry capability in case login failed.			
Assumptions: None			
Pre-Conditions: Run BMGT, to set the bulkExported field in the DICollections table of Datapool Database. The <startDate> and <endDate> in EcOsBulkUrlConfigParmas.xml must be set such that they overlap these granules' insertTimes.			
Test Steps:			

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1	Login to host where EcOsBulkUrlUtility runs. In EDF it is on f2ins01/f3ins01 and in PVC it runs on p2dps01	Passed
2	<pre># cd /usr/ecs/<mode>/CUSTOM/cfg ↵</pre> <pre># vi EcOsBulkURLConfigParams.xml ↵</pre> <p>Verify all FTP related attributes are present and valid. For more information please see Test procedure #1 step 2</p> <p>Edit attribute <test> and set it to true</p> <p>Edit attribute <ftpUser> and set it to an incorrect one</p> <p>Verify attribute <testUser> and make sure it is the correct user name for tuborg.gsfc.nasa.gov site.</p>	Passed
3	<pre># cd /usr/ecs/<mode>/CUSTOM/utilities ↵</pre> <p>and run the url export utility script:</p> <pre># EcOsBulkURLStart \$MODE Insert ↵</pre>	Passed
<p>Data Reduction and Analysis Steps:</p> <ul style="list-style-type: none"> • cd /usr/ecs/<mode>/CUSTOM/logs – • cat EcOsBulkURLDebug.log – Should find an appropriate message regarding login failure and retrying efforts. Log should also provide information about successful login and finally completing the ftp transaction. Also view /usr/ecs/<mode>/CUSTOM/logs/EcOsBulkURL.ALOG • Open a manual ftp connection to echo test site tuborg.gsfc.nasa.gov with user name ecs_test_update and password <your email address>. For details how to login to tuborg.gsfc.nasa.gov site please see “Data Reduction and Analysis Steps:” section of Integration Test Plan1: Test Procedure 1 (page 4). Verify the existence of file *InsURL.*.xml • Verify that local file is deleted from /datapool/DEV04/user/URLExport • Compare the timestamp between log and the file that was pushed to tuborg.gsfc.nasa.gov 		

	<p>TEST PROCEDURE 2</p> <p>The purpose of this procedure is to test the retry capability in case connection failed.</p>	
	<p>Assumptions: None</p>	

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	Pre-Conditions: Run BMGT, to set the bulkExported field in the DICollections table of Datapool Database. The <code><startDate></code> and <code><endDate></code> in EcOsBulkUrlConfigParmas.xml must be set such that they overlap these granules' insertTimes.	
	Test Steps:	
1	Login to host where EcOsBulkUrlUtility runs. In EDF it is on f2ins01/f3ins01 and in PVC it runs on p2dps01	Passed
2	<pre># cd /usr/ecs/<mode>/CUSTOM/cfg ↵ # vi EcOsBulkURLConfigParams.xml ↵</pre> <p>Verify all FTP related attributes are present and valid. For more information please see Test procedure #1 step 2</p> <p>Edit attribute <code><test></code> and set it to true. This will run the test in test mode</p> <p>Edit attribute <code><ftpHost></code> and set it to an incorrect one</p> <p>Verify attribute <code><testHost></code> and make sure it is the correct host name for tuborg.gsfc.nasa.gov site.</p>	Passed
3	<pre># cd /usr/ecs/<mode>/CUSTOM/utilities ↵</pre> <p>and run the url export utility script:</p> <pre># EcOsBulkURLStart \$MODE Insert ↵</pre>	Passed
<p>Data Reduction and Analysis Steps:</p> <ul style="list-style-type: none"> • <code>cd /usr/ecs/<mode>/CUSTOM/logs</code> – • <code>cat EcOsBulkURLDebug.log</code> – Should find an appropriate message regarding connection failure and retrying efforts. Log should also provide information about successful connection and finally completing the ftp transaction. Also view <code>/usr/ecs/<mode>/CUSTOM/logs/EcOsBulkURL.ALOG</code> • Open a manual ftp connection to echo test site tuborg.gsfc.nasa.gov with user name <code>ecs_test_update</code> and password <code><your email address></code>. For details how to login to tuborg.gsfc.nasa.gov site please see “Data Reduction and Analysis Steps:” section of Integration Test Plan1: Test Procedure 1 (page 4). Verify the existence of file <code>*InsURL.*.xml</code> • Verify that local file is deleted from <code>/datapool/DEV04/user/URLExport</code> • Compare the timestamp between log and the file that was pushed to tuborg.gsfc.nasa.gov 		

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Test Report

FTP Beans Suite 2.01 Custom was installed in the PVC on March 19, 2004 on p2dps01. As per the installation instructions, a soft link was created from /usr/ecs/OPS/COTS/ftpbeans to /usr/ecs/OPS/COTS/ftpbeans2.01_custom. It was tested successfully in the PVC on March 24, 2004 in the TS2 mode. Using Release 7.00 Prelim.07+ BMGT Bulk URL custom code, an XML file was generated and pushed through the PVC firewall to an external site (apl.jhu.edu). Additionally, the above procedures were successfully run in the Functionality Lab (EDF) on March 24, 2004 on f3ins01 in the DEV04 mode, running 6A.08+ custom code. No problems occurred, and no NCRs were written.